

WHAT IS CLAIMED IS:

1. A method for handling call set-ups in a telecommunications network, comprising:  
5 receiving a request to set up a call;  
comparing a first load value for a switch to a load threshold for the switch;  
allowing the call to be set up when the first load value is less than the load threshold;  
10 comparing a second load value to the load threshold in response to the first load value being greater than or equal to the load threshold; and  
allowing the call to be set up when the second load value is less than the load threshold.  
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2. The method of Claim 1, wherein the first load value comprises a current load value.
3. The method of Claim 2, wherein the second load  
20 value comprises an average load value.
4. The method of Claim 3, further comprising rejecting the request to set up the call when the current load value is greater than or equal to the load threshold  
25 and the average load value is greater than or equal to the load threshold.

5. A method for handling call set-ups in a telecommunications network, comprising:

receiving a request to set up a call;

comparing a first load value for a switch to a first  
5 load threshold for the switch;

allowing the call to be set up when the first load value is less than the first load threshold;

comparing a second load value to a second load threshold in response to the first load value being greater  
10 than or equal to the first load threshold; and

allowing the call to be set up when the second load value is less than the second load threshold.

6. The method of Claim 5, wherein the first load  
15 value comprises a current load value.

7. The method of Claim 6, wherein the second load value comprises an average load value.

8. A method for handling traffic based on dynamic data for a switch, comprising:

determining a first dynamic load for a switch processor;

5 determining a second dynamic load for a switch processor;

comparing the first dynamic load to a threshold;

comparing the second dynamic load to a second threshold; and

10 performing queue management for the switch processor based on the results of the comparisons.

9. The method of Claim 8, wherein the first threshold and the second threshold comprise a same threshold.

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10. A system for handling call set-ups in a telecommunications network, comprising:

a load calculator operable to perform a load calculator task;

5 a load integrator operable to calculate and store a current load value associated with a processor and operable to calculate and store an average load value associated with the processor; and

10 a call rejection module operable to reject a request to set up a call based on the current load value and a load threshold.

11. The system of Claim 10, the load calculator task comprising incrementing a counter.

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12. The system of Claim 10, the load integrator operable to calculate a current load value based on a result from the load calculator and an optimal load.

20 13. The system of Claim 10, the load integrator further operable to store a plurality of load values and operable to calculate an average load value based on the current load value and a specified number of the plurality of load values.

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14. The system of Claim 10, the call rejection module operable to reject a request to set up a call when the current load value is greater than or equal to the load threshold.

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15. The system of Claim 10, the call rejection module operable to reject a request to set up a call based on the average load value and the load threshold.

- 5        16. The system of Claim 15, the call rejection module operable to reject a request to set up a call when the average load value is greater than or equal to the load threshold.

17. An asynchronous transfer mode switch, comprising:  
a plurality of line cards, each line card operable to  
receive a request to set up a call; and

5 a processing card operable to reject the request to  
set up the call based on a current load value associated  
with a processor, a load threshold associated with the  
processor, and an average load value associated with the  
processor.

10 18. The switch of Claim 17, wherein the processing  
card comprises a load calculator operable to perform a load  
calculator task and a load integrator operable to calculate  
and store the current load value based on a result from the  
load calculator.

15 19. The switch of Claim 17, the processing card  
further operable to reject the request to set up the call  
based on the average load value and the load threshold.

20 20. The switch of Claim 19, wherein the processing  
card comprises a load calculator operable to perform a load  
calculator task and a load integrator operable to store a  
plurality of load values, to calculate and store the  
current load value based on a result from the load  
25 calculator, and operable to calculate the average load  
value based on the current load value and a specified  
number of the plurality of load values.